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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/867,705	05/31/2001	Hiroyuki Furuya	Q63874	6199
7590 01/27/2005 SUGHRUE, MION, ZINN, MACPEAK, & SEAS, PLLC 2100 Pennsylvania Avenue, NW Washington, DC 20037-3213			EXAMINER GRANT II, JEROME	
			ART UNIT 2626	PAPER NUMBER

DATE MAILED: 01/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/867,705

Applicant(s)

FURUYA, HIROYUKI

Examiner

Jerome Grant II

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1,3,4,6 and 10-12 is/are rejected.
- 7) ☒ Claim(s) 2,5 and 7-9 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 1-22-2005.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

Detailed Action

1.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3, 4, 6 and 10-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Danzuka.

With respect to claim 1, Danzuka teaches an image recording apparatus (shown by figure 10) comprising: a recording device 1 as claimed; an image converting device 96 for converting signal values of a first image signal of the image into signal values of the second image signal as claimed; a density measuring device 94 for reading as claimed to acquire measurement density values (sent to the A/D unit 97) of the test chart (density measurement test patterns); a reference density value selecting device 98 and 91 for selecting reference density values corresponding to the measurement density values from a target density data, the target density data indicating a relationship between the first image signal and the target density (actual measured density from output image) of an image recorded on the recording medium, and having a total data number larger (represented by the total of all color data used for recording) than that of the measurement density values acquired by said density measuring device

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(change in units to increase the density resolution, see col. 15, lines 48-52; and converting condition calculating device 93 and 95 for calculating target image signal values of the test chart image based on the target density data (output from unit 94) and the reference density values (output from 98), each of the target image signal values 91 and 92 correspond to each measurement density value, and for calculating the image signal converting condition (via units 93 and 95) based on the target image signal values and the test chart output image signal values of the second image signal by the image signal converting condition and the image is recorded via unit 1.

With respect to claim 3, Danzuka teaches the recording medium 1 generates an output image that is measured with respect to the test pattern 94.

With respect to claim 4, Danzuka teaches converting condition storage device 96a or 98 for the purpose claimed.

With respect to claim 6, Danzuka teaches the test chart output image signal values are predetermined values that are stored as part of the test pattern in 94.

With respect to claim 10, See figure 2, 5 and 19a of the Danzuka reference.

With respect to claim 11, Danzuka teaches an image recording method which is performed by the apparatus (shown by figure 10) comprising: a recording device 1 as claimed; an image converting device 96 for converting signal values of a first image signal of the image into signal values of the second image signal as claimed; reading a

test chart via a density measuring device 94 for reading as claimed to acquire measurement density values (sent to the A/D unit 97) of the test chart (density measurement test patterns); selecting a reference density value via a reference density value selecting device 98 and 91 for selecting reference density values corresponding to the measurement density values from a target density data, the target density data indicating a relationship between the first image signal and the target density (actual measured density from output image) of an image recorded on the recording medium, and having a total data number larger (represented by the total of all color data used for recording) than that of the measurement density values acquired by said density measuring device (change in units to increase the density resolution, see col. 15, lines 48-52; and calculating a target image signal by means of converting condition calculating device 93 and 95 for calculating target image signal values of the test chart image based on the target density data (output from unit 94) and the reference density values (output from 98), each of the target image signal values 91 and 92 correspond to each measurement density value, and for calculating the image signal converting condition (via units 93 and 95) based on the target image signal values and the test chart output image signal values of the second image signal by the image signal converting condition and the image is recorded via unit 1.

With respect to claim 12, Danzuka teaches a calibration system of image recording and density measuring apparatus connected via a communication line wherein the recording apparatus includes: : a recording device 1 as claimed; an image

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converting device 96 for converting signal values of a first image signal of the image into signal values of the second image signal as claimed; a recording device 1 as claimed for recording first and second signals; a communication device A/D 97 for receiving density measurement values of test chart as claimed; a reference density value selecting device for generating a reference density value via a reference density value selecting device 98 and 91 for selecting reference density values corresponding to the measurement density values from a target density data, the target density data indicating a relationship between the first image signal and the target density (actual measured density from output image) of an image recorded on the recording medium, and having a total data number larger (represented by the total of all color data used for recording) than that of the measurement density values acquired by said density measuring device (change in units to increase the density resolution, see col. 15, lines 48-52; c converting condition calculating device for calculating a target image signal by means of converting condition calculating device 93 and 95 for calculating target image signal values of the test chart image based on the target density data (output from unit 94) and the reference density values (output from 98), each of the target image signal values 91 and 92 correspond to each measurement density value, and for calculating the image signal converting condition (via units 93 and 95) based on the target image signal values and the test chart output image signal values of the second image signal by the image signal converting condition and the image is recorded via unit 1 wherein : said density measuring apparatus includes: density measuring device (reading means inherent in 94) for measuring densities and of the test chart image as claimed; and

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communication device (output means inherent for outputting result to the A/D unit 97) for transmitting the measurement density values as claimed.

2.

Claims Objected

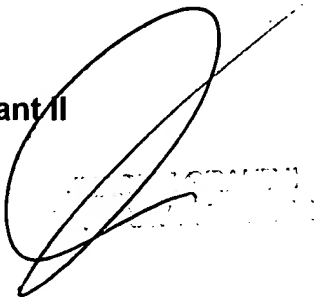
Claims 2, 5, 7-9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerome Grant II whose telephone number is 703-305-4391. The examiner can normally be reached on Mon.-Fri. from 9:00 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly A Williams, can be reached on 703-305-4863. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

J. Grant/II

A handwritten signature in black ink, appearing to be 'J. Grant/II', written over a faint, circular stamp or watermark.